ASBESTOS-CONTAMINATED VERMICULITE TIMELINE OF OPPT/OTS INVOLVEMENT

1971: U.S. Bureau of Mines showed occupational fiber levels at Libby ranging from 13-71 f/cc.

OSHA PEL is 12 f/cc

1972: OSHA PEL is 5 f/cc.

EPA is operating after being established in 1970.

1974/5: W.R. Grace initiated wet milling - fiber levels reduced to below 0.2 f/cc.

1976: OSHA PEL is 2 f/cc.

TSCA enacted (October).

1977: O.M. Scotts files 8(e) data on vermiculite health effects on its workers, initiating OTS review of vermiculite exposure.

1979: Chemical Hazard Information Profile (CHIP) published based on Scotts' submission.

1980: EPA, CPSC, and the Interagency Regulatory Liaison Group hosts symposium which includes a discussion of the health effects of vermiculite from Libby contaminated with asbestos.

Assessment Division completes Priority Review Level - I. (First stage of internal review - concludes worker risk is a concern and additional data needs to be gathered to determine additional risks).

1981: Chemical Control Division develops draft options paper on asbestos containing vermiculite.

1981/2: W.R. Grace submits an 8(e) notice discussing epidemiology studies on past/present workers at the Libby mine.

1982: MRI asbestos contamination in vermiculite report issued.

NIOSH began study on the effects of tremolite exposure at Libby.

1983:	OTS decides not to pursue vermiculite as a priority; asbestos content < 1% (Clay
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letter to Courter).

EPA completes review of Grace's 8(e) submission and distributes results to

NIOSH, OSHA, CPSC, MSHA, and to other EPA offices.

1985: EPA's final exposure assessment is published (no risk calculations are made).

1986: Asbestos Ban and Phaseout Proposed Rule - excludes all products < 1% asbestos.

W.R. Grace comments in support of Proposed rule.

OSHA PEL is 0.2 f/cc.

First comprehensive carcinogenicity assessment for asbestos is published.

1989: Asbestos Ban and Phaseout Final Rule.

1990: W.R. Grace closes the mine in Libby.

1991: Court remands (strikes down) Asbestos Ban and Phaseout rule.

1994: OSHA PEL is 0.1 f/cc (10 -3 risk level).